

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Art Unit: TBA

CADE ET AL.

Examiner: TBA

APPLICATION NO: TBA

FILED: On Even Date

FOR: GENES ENCODING PROTEINS INVOLVED IN THE REGULATION  
OF SAR GENE EXPRESSION IN PLANTS

Commissioner for Patents  
Washington, D.C. 20231

SUBMISSION OF SEQUENCE LISTING  
INCLUDING STATEMENT OF VERIFICATION

Sir:

Applicants hereby provide a Computer Readable Form of the Sequence Listing as well as the Paper Copy thereof. The undersigned states that the Paper Copy and the Computer Readable Form, submitted in accordance with 37 CFR §1.821(c) and (e), respectively, are the same.

Respectfully submitted,



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Date: December 8, 2000

- 1 -

SEQUENCE LISTING

<110> Cade, Rebecca M  
Dietrich, Robert A

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aac gga aaa tct gac ggt aac aga ggg aaa cgc tcg acg gaa gtt gtt 157

Asn Gly Lys Ser Asp Gly Asn Arg Gly Lys Pro Ser Thr Glu Val Val

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 Arg Thr Val Thr Glu Glu Val Asp Glu Phe Phe Lys Ile Leu Arg  
 35 40 45  
 aga gta cac gtg gcg aca cga acg gtt gcg aaa gtt aac ggc ggt gtt 253  
 Arg Val His Val Ala Thr Arg Thr Val Ala Lys Val Asn Gly Gly Val  
 50 55 60  
 gct gag gga gag tta ccg tct aag aag agg aaa cgg agt cag aat ctt 301  
 Ala Glu Gly Glu Leu Pro Ser Lys Lys Arg Lys Arg Ser Gln Asn Leu  
 65 70 75  
 ggg ttg aga aac tcg ttg gat tgt aac ggc gtt cga gac gga gaa ttc 349  
 Gly Leu Arg Asn Ser Leu Asp Cys Asn Gly Val Arg Asp Gly Glu Phe  
 80 85 90  
 gat gag att aat cgg gtc ggg tta cag ggt ttg ggt ttg gat ctg aac 397  
 Asp Glu Ile Asn Arg Val Gly Leu Gln Gly Leu Gly Leu Asp Leu Asn  
 95 100 105 110  
 tgt aaa ccg gaa cca gac agc gtt agt tta tcg ttg tagacttgta 443  
 Cys Lys Pro Glu Pro Asp Ser Val Ser Leu Ser Leu  
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 35 40 45  
 His Val Ala Thr Arg Thr Val Ala Lys Val Asn Gly Gly Val Ala Glu  
 50 55 60  
 Gly Glu Leu Pro Ser Lys Lys Arg Lys Arg Ser Gln Asn Leu Gly Leu  
 65 70 75 80  
 Arg Asn Ser Leu Asp Cys Asn Gly Val Arg Asp Gly Glu Phe Asp Glu  
 85 90 95  
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ggaaaattca ggtaaaaaga gaaaataaag aatgagagat agagagattt ctatggaaaa 240  
agaaagagag aacatgtagg tgaacaaaat aaagagatat gatgatatat ttatgagag 300  
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ctaaactattg ccaaaatttc tgtagccgac aaatactatt tgggtccaag ttattttgtg 540
tatttttttg aagtcaaaag ttattttctta catatactct aaaaatatag ccgataccaa 600
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tacgctttaa aacatcgcat gatgatgtca tttagcatca tctccaccgt ccaattttatt 720
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tga atg cta ctt atg gac gga gaa aag aag agg aag aga aca gca atc 168

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1 5 10 15

ggc gcc gga gat cgg agt aag gat gag gta gaa gct act gtg aag gag 216

Gly Ala Gly Asp Arg Ser Lys Asp Glu Val Glu Ala Thr Val Lys Glu  
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gag gag ccg ccg tca gag gcg gag gtt gac gag ttc ttc gcg atc tta 264

Glu Glu Pro Pro Ser Glu Ala Glu Val Asp Glu Phe Phe Ala Ile Leu  
35 40 45

cgg agg atg cat gtg gcg gtg aaa tat ctc cag aga aat gct cag att 312

Arg Arg Met His Val Ala Val Lys Tyr Leu Gln Arg Asn Ala Gln Ile  
50 55 60

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gct gga cgg aag aga gaa cgg gga atc gtg aga aaa ggt gat ttg gac 408  
 Ala Gly Arg Lys Arg Glu Arg Gly Ile Val Arg Lys Gly Asp Leu Asp  
         80                          85                          90                          95

ctc aac act ctg ccg gac ggc gga gac taa ttaacgcagt ttaagcatag 458  
 Leu Asn Thr Leu Pro Asp Gly Gly Asp  
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atttctttaa ataaatttaa tttattttat 608

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 Glu Pro Pro Ser Glu Ala Glu Val Asp Glu Phe Phe Ala Ile Leu Arg  
         35                          40                          45  
 Arg Met His Val Ala Val Lys Tyr Leu Gln Arg Asn Ala Gln Ile Arg  
         50                          55                          60  
 Pro Glu Asn Leu Asn Ala Ser Pro Ala Gly Ala Asn Gly Val Ala Ala  
         65                          70                          75                          80  
 Gly Arg Lys Arg Glu Arg Gly Ile Val Arg Lys Gly Asp Leu Asp Leu  
         85                          90                          95  
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His Met Ala Val Lys Tyr Leu Gln Arg Asn Ala Gln Ile Gln Pro Glu
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aac gtt aac gct cac ggc agc aag tta acc gca tgc ccg gcc ggt gtt 143
Asn Val Asn Ala His Gly Ser Lys Leu Thr Ala Ser Pro Ala Gly Val
      35             40             45

aac gga gat gca act gga cag aag aga gaa ccg gga atc gtg aga aaa 191
Asn Gly Asp Ala Thr Gly Gln Lys Arg Glu Arg Gly Ile Val Arg Lys
      50             55             60

ggt gat ttg gac ctc aac act ttg ccg gac tgc gga gac taa 233
Gly Asp Leu Asp Leu Asn Thr Leu Pro Asp Cys Gly Asp
      65             70             75

cgcagtttaa gcataggtta attacagaaa tgcaccttta attatcgtag attcttaaga 293

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Val Asn Ala His Gly Ser Lys Leu Thr Ala Ser Pro Ala Gly Val Asn
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Asp Gly Ser Asp Gly Val Pro Thr Glu Glu Glu Val Glu Glu Phe Phe  
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Gly Lys Glu Trp Arg Lys Ala Leu Glu Thr Ala Glu Leu Thr Val Asp  
 35 40 45

His Arg His Asp Val Val Ala Ala Glu Glu Asp Asp Lys Pro Arg Lys  
 50 55 60

Lys Gly Gly Glu Val Ile Ile Asn Glu Gly Phe Asp Leu Asn Ala Val  
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Ala Pro Glu Ala Ala Glu Gly Gly Gly Ala  
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<213> Nicotiana tabacum

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 20 25 30

Thr Ala Val Ser Pro Pro Pro Ser Glu Ala Glu Val Asp Glu Phe Phe  
 35 40 45

Ala Ile Leu Arg Arg Met His Val Ala Val Arg Tyr Leu Gln Glu Ser  
 50 55 60



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Gly Gln Lys Arg Val Val Pro Lys Gly Asp Leu Asp Leu Asn Thr Leu  
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Pro Gly Asn Gly Asp  
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20 25 30

atg cgg aaa tat gtc aac agc tcc atg gag aag aag aga cag gaa gaa 144  
Met Arg Lys Tyr Val Asn Ser Ser Met Glu Lys Lys Arg Gln Glu Glu  
35 40 45

gaa gaa aga gca agg gtt cgt aga ttc cct tcg ttt cag cca gaa gat 192  
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ttc att ttc atg aat aaa gca gag gcc aac aac att gaa aaa gca gct 240  
Phe Ile Phe Met Asn Lys Ala Glu Ala Asn Asn Ile Glu Lys Ala Ala  
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aat gag agc tct tca gca tcc aac gag tat gat ggc tct aag gaa aag 288  
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85 90 95

caa gaa gga tct gag act aac gtt tgt tta gac ttg aat ctt tct ctg 336  
Gln Glu Gly Ser Glu Thr Asn Val Cys Leu Asp Leu Asn Leu Ser Leu  
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Glu Glu Arg Ala Arg Val Arg Arg Phe Pro Ser Phe Gln Pro Glu Asp  
50 55 60

- 12 -

Phe	Ile	Phe	Met	Asn	Lys	Ala	Glu	Ala	Asn	Asn	Ile	Glu	Lys	Ala	Ala
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